

Application No. 09/944,657
Amendment dated April 28, 2005
Reply to Office action of March 8, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 Claim 1 (original): In a document-scanning system having a scanner
2 lamp, a scanner sensor, and a scanner cover, said scanner cover having a document-
3 backing surface, said document-backing surface comprising:
4 (a) at least one first nonreflective surface at least partially covering said
5 document-backing surface;
6 (b) at least one second nonreflective surface at least partially covering
7 said document-backing surface;
8 (c) said at least one first nonreflective surface for absorbing light;
9 (d) said at least one second nonreflective surface for absorbing light;
10 (e) at least one first specularly reflective surface at least partially
11 covering said at least one second nonreflective surface; and
12 (f) said at least one first specularly reflective surface for reflecting light.
13

1 Claim 2 (original): The document-backing surface of claim 1, wherein said
2 at least one first specularly reflective surface is oriented to reflect light from said
3 scanner lamp to said scanner sensor.

1 Claim 3 (original): The document-backing surface of claim 1, wherein said
2 at least one first nonreflective surface is at an angle to said at least one second
3 nonreflective surface.

4

1 Claim 4 (original): The document-backing surface of claim 1, wherein said
2 at least one first nonreflective surface is a plurality of first nonreflective surfaces.

3

1 Claim 5 (original): The document-backing surface of claim 4, wherein
2 each of said plurality of first nonreflective surfaces is parallel to each other.

3

1 Claim 6 (original): The document-backing surface of claim 1, wherein said
2 at least one second nonreflective surface is a plurality of second nonreflective surfaces.

3

1 Claim 7 (original): The document-backing surface of claim 6, wherein
2 each of said plurality of second nonreflective surfaces is parallel to each other.

3

1 Claim 8 (original): The document-backing surface of claim 6, wherein
2 each of said plurality of second nonreflective surfaces is at least partially covered by
3 one of said first specularly reflective surfaces.

4

1 Claim 9 (original): The document-backing surface of claim 1, further
2 comprising at least one second specularly reflective surface at least partially covering
3 said at least one first nonreflective surface, said at least one second specularly
4 reflective surface for specularly reflecting light.

5

6

1 Claim 10 (original): The document-backing surface of claim 1, wherein
2 said at least one first nonreflective surface is in a planar relationship to said at least one
3 second nonreflective surface.

4

1 Claim 11 (original): The document-backing surface of claim 1, wherein
2 said at least one first nonreflective surface is perpendicular to a cover geometric plane.

3

1 Claim 12 (original): The document-backing surface of claim 1, wherein
2 said at least one second nonreflective surface is in a plane parallel to said a cover
3 geometric plane.

4

1 Claim 13 (original): The document-backing surface of claim 1, wherein
2 said at least one second nonreflective surface is at an angle to a cover geometric plane.

3

1 Claim 14 (currently amended): In a document-scanning system having a
2 scanner lamp and a scanner sensor, a document-backing surface for absorbing light,
3 said document-backing surface comprising:

- 4 (a) at least one specularly reflective surface;
5 (b) said at least one specularly reflective surface at least partially
6 covering said document-backing surface; [[and]]
7 (c) said at least one specularly reflective surface oriented to reflect
8 light from said scanner lamp to said scanner sensor;
9 (d) wherein said at least one specularly reflective surface is a plurality
10 of specularly reflective surfaces; and
11 (e) wherein each of said plurality of specularly reflective surfaces has a
12 coefficient of reflectivity, each said coefficient of reflectivity being
13 less than 100 percent.

14

1 Claim 15 (cancelled):

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1 Claim 16 (cancelled):

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1 Claim 17 (cancelled):

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1 Claim 18 (currently amended): ~~The document-backing surface of claim~~
2 15, In a document-scanning system having a scanner lamp and a scanner sensor, a
3 document-backing surface for absorbing light, said document-backing surface
4 comprising:

- 5 (a) at least one specularly reflective surface;
 - 6 (b) said at least one specularly reflective surface at least partially
covering said document-backing surface;
 - 7 (c) said at least one specularly reflective surface oriented to reflect
light from said scanner lamp to said scanner sensor;
 - 8 (d) wherein said at least one specularly reflective surface is a plurality
of specularly reflective surfaces; and
 - 9 (e) wherein each of said plurality of specularly reflective surfaces has a
coefficient of reflectivity, each said coefficient of reflectivity such
- 10 that the expression $R_m \geq [R_o * R_p * \cos(\theta)] \frac{1}{r_1}$ is true.

15

1 Claim 19 (currently amended): In a document-scanning system having a
2 scanner lamp, a scanner sensor, and a scanner cover, said scanner cover having a
3 document-backing surface, said document-backing surface comprising:

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- 4 (a) at least one first nonreflective surface at least partially covering said
5 document-backing surface;
- 6 (b) at least one second nonreflective surface at least partially covering
7 said document-backing surface;
- 8 (c) said at least one first nonreflective surface for absorbing light;
9 [[and]]
- 10 (d) said at least one second nonreflective surface for absorbing light;
11 and
- 12 (e) at least one first specularly reflective surface at least partially
13 covering said at least one second nonreflective surface.

1 Claim 20 (cancelled):

2
1 Claim 21 (currently amended): The document-backing surface of claim 20
2 claim 19, wherein said at least one first specularly reflective surface is for specularly
3 reflecting light.

4
1 Claim 22 (original): In a document-scanning system having a document-
2 scanning cover, said document-scanning cover having a first cover end, a second cover
3 end opposite said first cover end, a first cover side, a second cover side opposite said
4 first cover side, a document-backing surface against which a document is placed for
5 scanning, an opposite surface opposite said document-backing surface, a longitudinal
6 cover axis extending between said first cover end and said second cover end, a
7 latitudinal cover axis extending between said first cover side and said second cover
8 side, a cover geometric plane defined by said longitudinal axis and said latitudinal axis,
9 and a thickness defined between said document-backing surface and said opposite
10 surface, said document-backing surface comprising:

- 11 (a) at least one tooth;

- 12 (b) each said at least one tooth having a first tooth surface and a
13 second tooth surface;
14 (c) each said first tooth surface being perpendicular to said cover
15 geometric plane;
16 (d) each said second tooth surface at an angle to said cover geometric
17 plane; and
18 (e) each said at least one tooth having a first tooth side and a second
19 tooth side.

20

1 Claim 23 (original): The document-backing surface of claim 22, wherein
2 each said first tooth surface is light-absorptive.

3

1 Claim 24 (original): The document-backing surface of claim 22, wherein
2 each said second tooth surface is light-absorptive.

3

1 Claim 25 (original): The document-backing surface of claim 24, further
2 comprising at least one first specularly reflective surface at least partially covering said
3 second tooth surface, said at least one first specularly reflective surface being
4 specularly light-reflective.

5

1 Claim 26 (original): The document-backing surface of claim 24, further
2 comprising at least one mirror at least partially covering each said second tooth surface.

3

1 Claim 27 (original): The document-backing surface of claim 22, wherein
2 each said second tooth surface extends between the top of one first tooth surface and
3 the bottom of an adjacent first tooth surface.

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1 Claim 28 (original): The document-backing surface of claim 22, wherein
2 said first cover end and said second cover end are parallel.

3

1 Claim 29 (original): The document-backing surface of claim 22, wherein
2 said first cover side and said second cover side are parallel.

3

1 Claim 30 (original): The document-backing surface of claim 22, wherein
2 each said first tooth side is perpendicular to said longitudinal axis and perpendicular to
3 said latitudinal axis.

4

1 Claim 31 (original): The document-backing surface of claim 22, wherein
2 each said second tooth side is perpendicular to said longitudinal axis and perpendicular
3 to said latitudinal axis.

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1 Claim 32 (cancelled):
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